

**LASER HEAD FOR IRRADIATION AND REMOVAL OF MATERIAL FROM A
SURFACE OF A STRUCTURE**

Abstract of the Invention

A laser head is adapted to irradiate an interaction region of an inhabitable structure with laser light to remove material from the structure. The laser head includes a housing and a connector coupled to the housing and optically coupled to a laser generator. The connector is adapted to transmit laser light from the laser generator. The laser head further includes a first optical element and a second optical element contained in the housing. The second optical element is optically coupled to the first optical element. The laser head further includes a containment plenum coupled to the housing. The containment plenum is optically coupled to the second optical element to receive the laser light from the second optical element. The containment plenum is adapted to confine the material and to remove the material from the interaction region resulting from irradiating the structure with the laser light.

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